

**Space Science Seminar
Tuesday, 2015 July 14
10:30 a.m.
NSSTC/2096**

**Impacts on the Moon: When, Where, and Why
Should We Care?**

Dr. Nicole Zellner / Physics Department, Albion College
Host: Dr. Barbara Cohen

As our closest planetary neighbor, the Moon provides the most clear and complete history of impact events in the inner Solar System since its formation ~4.5 billion years (Ga) ago. With samples from the Apollo missions and recent orbital data, the Moon continues to provide scientific answers to questions about its impact flux; however, the timing of this flux is not well understood. In this talk, I will present some interpretations of this impact flux, derived from evidence in both orbital and sample data. I will also describe how the Moon's impact record, if properly interpreted, can be used to gain insights into how the Earth (and perhaps life) has been influenced by impacting events over billions of years.

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